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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/038,877		12/31/2001	Tong Sun	KCC 4781 (K.C. No. 17,028	9 6437	
321	7590	05/23/2003			1	
SENNIGER POWERS LEAVITT AND ROEDEL ONE METROPOLITAN SQUARE 16TH FLOOR				EXAMINER		
				HALPERN, MARK		
ST LOUIS,	MO 6310	J2		ART UNIT	6437 MINER N, MARK PAPER NUMBER	
				1731		
				DATE MAIL ED: 05/23/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/038,877	SUN ET AL.	,
	Office Action Summary	Examiner	Art Unit	
		Mark Halpern	1731	
Period fo	The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence addre	!SS
A SH THE - Exte after - If the - If NO - Failu - Any earn	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, and period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a real. reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MON latute, cause the application to become AB	eply be timely filed y (30) days will be considered timely, THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	nunication.
Status				
1)🖂	Responsive to communication(s) filed on	· · · · · · · · · · · · · · · · · · ·		
2a)⊠	This action is FINAL . 2b)			
3)[]	Since this application is in condition for all closed in accordance with the practice unition of Claims			nerits is
	Claim(s) <u>1,6-10,12-23 and 26-28</u> is/are pe	nding in the application		
	4a) Of the above claim(s) is/are with			
	Claim(s) <u>26-28</u> is/are allowed.			
	Claim(s) <u>1,6,7,10,12-17 and 20-23</u> is/are re	ejected.		
	Claim(s) 8,9 and 18.19 is/are objected to.			
8)	Claim(s) are subject to restriction ar	nd/or election requirement.		
	The specification is objected to by the Exam	niner		
	The drawing(s) filed on is/are: a)□ a		ne Examiner	
. • / 🗀	Applicant may not request that any objection t			
11)	The proposed drawing correction filed on			
•	If approved, corrected drawings are required in			
12) 🔲	The oath or declaration is objected to by the	Examiner.		
Priority ι	ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority docum	ents have been received.		
	2. Certified copies of the priority docum		oplication No	
* 5	3. Copies of the certified copies of the paper application from the International See the attached detailed Office action for a	Bureau (PCT Rule 17.2(a)).		ıge
14) 🗌 A	cknowledgment is made of a claim for dom	estic priority under 35 U.S.C.	§ 119(e) (to a provisional ap	plication).
—) The translation of the foreign language Acknowledgment is made of a claim for dom	• •		
Attachmen	•			
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper Not	5) Notice of Ir	Summary (PTO-413) Paper No(s). Informal Patent Application (PTO-15	<u> </u>

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DETAILED ACTION

1) Acknowledgement is made of Amendment received 3/24/2003, Paper No. 8. Applicants amend claims 1, 6-10, 12, 15, cancel claims 2-5, 11, 24-25, and offer new claims 26-28, for consideration.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 1, 6-7, 10, 12-17, 20-23, are rejected under 35 U.S.C. 103(a) as being unpatentable over Frisch (2,644,750) in view of Shannon (6,488,812).

Claims 1, 10, 12-13, 15, 20-22: Frisch discloses a process of making paper wherein boric acid is added to the aqueous suspension of fibers prior to the formation of a web (col. 1, line 5 to col. 2, line 12). A sheet is formed and then dried (col. 3, lines 1-5, and col. 5, line 68 to col. 6, line 19). Frisch fails to disclose that the web is dried by heated gas, air, having a temperature of at least 190 °C. Shannon discloses a process for making a tissue, wherein air drying of formed web is performed at about 390 °F (about 199 °C) (Shannon, col. 14, lines 15-36). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Frisch and Shannon, because such a combination would provide quality drying of the formed

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web in the design of Frisch, since Shannon teaches of 99 % consistency of the final dried product.

Claims 6-7, 16-17: the pH after the addition of boric acid is between about 3 and 10 (Frisch, col. 3, lines 45-50).

Claims 14, 23: Shannon discloses the use of secondary cellulosic fibers such as broke or repulped fibers (Shannon, col. 15, lines 45-50).

Allowable Subject Matter

- 3) Claims 26-28, are allowed.
- Claims 8-9, 18-19, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for indicating allowable subject matter is that the cited prior art does not show a process for manufacturing a cellulosic paper wherein boric acid is added to the suspension in the amount claimed (claims 8, 18, 26).

Response to Amendment

5) Claims 1-7, 14, rejection under 35 U.S.C. 102(b) as being anticipated by Gomez (4,487,657), is withdrawn in view of amended and cancelled claims.

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6) Claims 24-25, rejection under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gomez, is withdrawn in view of cancelled claims.

Conclusion

7) Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 703-305-4522. The examiner can normally be reached on Mon-Fri, (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 703-308-1164. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-308-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

MK

Mark Halpern
Patent Examiner
Art Unit 1731

May 19, 2003

STEVEN P. GRIFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700